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Drinking water, wastewater and stormwater systems and services — Adaptation of water services to climate change impacts — ~~—~~ —

Part 4: Wastewater services

*Services et systèmes d'alimentation en eau potable, d'assainissement et de gestion des eaux pluviales —
Adaptation des services de l'eau aux impacts du changement climatique —*

Partie 4: Services d'assainissement

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Foreword

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This document was prepared by Technical Committee ISO/TC 224, *Drinking water, wastewater and stormwater systems and services*.

A list of all parts in the ISO 24566 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The ~~fact that occurrence of~~ climate change is ~~occurring is~~ recognized globally. Accordingly, mitigation and adaptation ~~programs~~**programmes** have been introduced in many nations, and internationally through a number of agreements.

~~At the local level~~**Locally**, operators of water services have had to assess the impacts and options for responding to the effects of climate change, some of which are slow and long-term, while others are acute, arising from extreme weather events and changes.

~~This document gives guidance and requirements for identifying impacts of climate change to wastewater systems, on developing strategies for the adaptation to these impacts, and provides examples of responses taken in respect of wastewater systems.~~

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Drinking water, wastewater and stormwater systems and services — Adaptation of water services to climate change impacts

Part 4: Wastewater services

1 Scope

This document provides guidance and requirements for identifying and assessing impacts of climate change on wastewater systems and on developing strategies for the adaptation to these impacts. The assessment of the impacts is based on the assessment principles described in ISO 24566-1.

This document also provides examples of some of the impacts of climate change on wastewater systems and of the responses that have been implemented by municipal water services or by the relevant jurisdiction (e.g. municipality or region served by the service). The examples of responses illustrate adaptation strategies that have been applied.

NOTE Both combined and non-combined wastewater systems are included in this document regarding the activities of collection, transport, storage and treatment of wastewater.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 24513, *Service activities relating to drinking water supply, wastewater and stormwater systems — Vocabulary*

3 Terms, definitions and abbreviations

For the purposes of this document, the terms and definitions ~~provided given~~ in ISO 24513:2019 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 ~~3.1~~

adaptation to climate change

process of adjustment to actual or expected climate and its effects

Note 1 to entry: In human systems, adaptation seeks to moderate or avoid harm or exploit beneficial opportunities.

Note 2 to entry: In some natural systems, human intervention can facilitate adjustment to expected climate and its effects.